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JC53
PATENT & TRADEMARK OFFICE

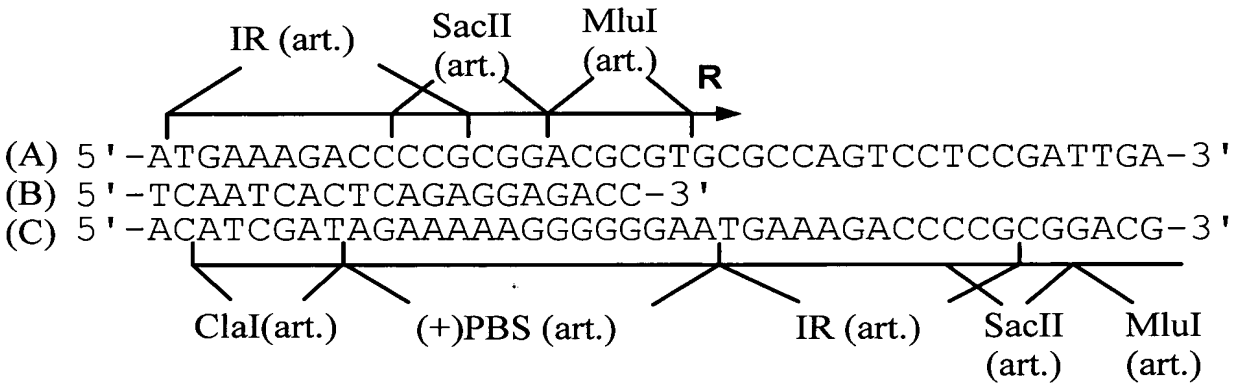

FIG. 1

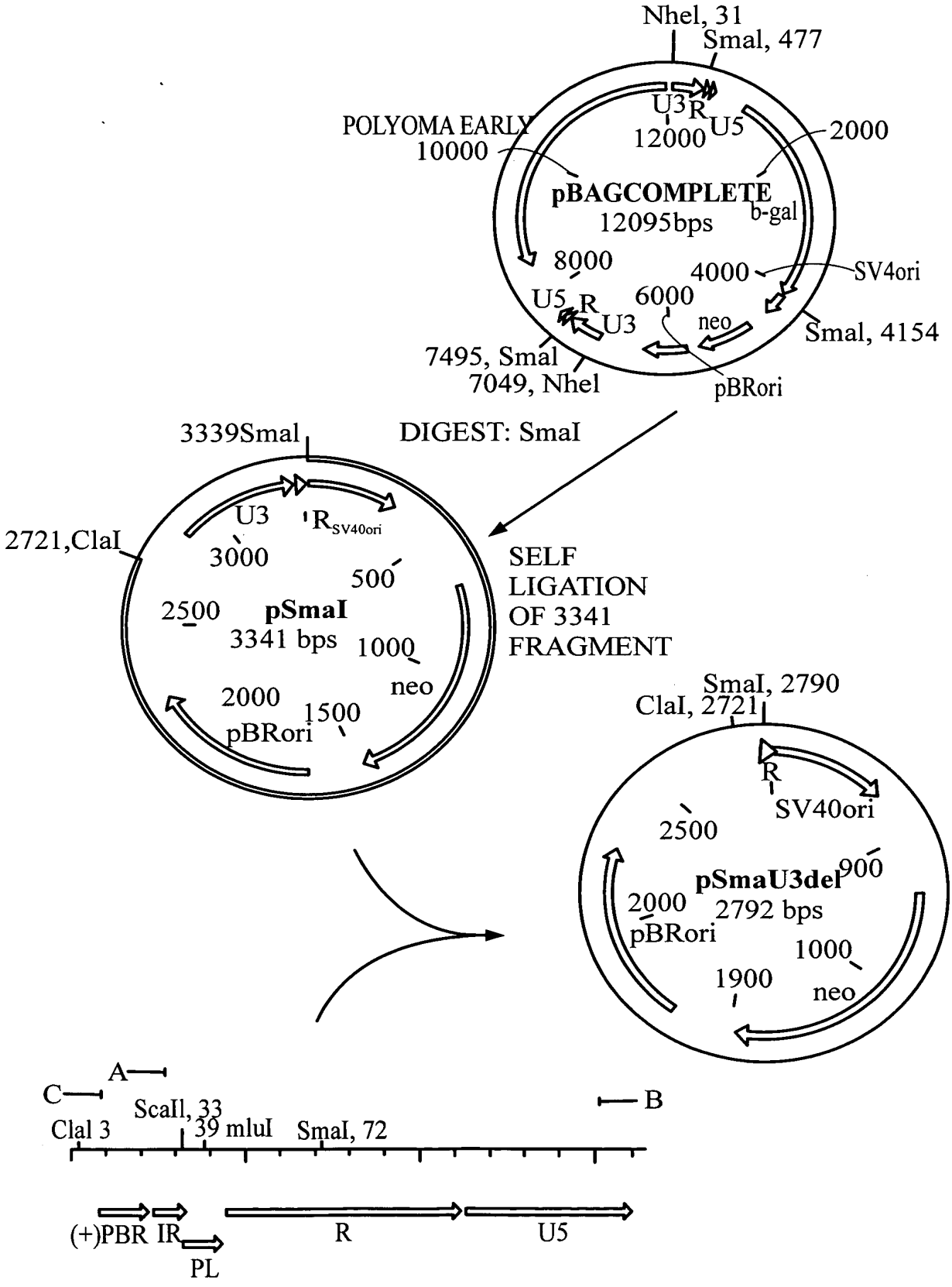
NheI, 31
SmaI, 477
U3
R
U5
12000
POLYOMA EARLY
10000
2000
pBAGCOMPLETE
12095bps
b-gal
8000
4000
SV4ori
U5
R
U3
6000
neo
SmaI, 4154
7495, SmaI
7049, NheI
pBRori
DIGEST: SmaI
3339SmaI
2721,ClaI
U3
R SV40ori
3000
500
2500
pSmaI
3341 bps
1000
neo
2000
1500
pBRori
SELF
LIGATION
OF 3341
FRAGMENT
SmaI, 2790
ClaI, 2721
R
SV40ori
2500
900
pSmaU3del
2000
2792 bps
pBRori
1000
1900
neo
A
C
ScaII, 33
B
ClaI 3
39 mluI
SmaI, 72
(+)PBR
IR
PL
R
U5

FIG. 2

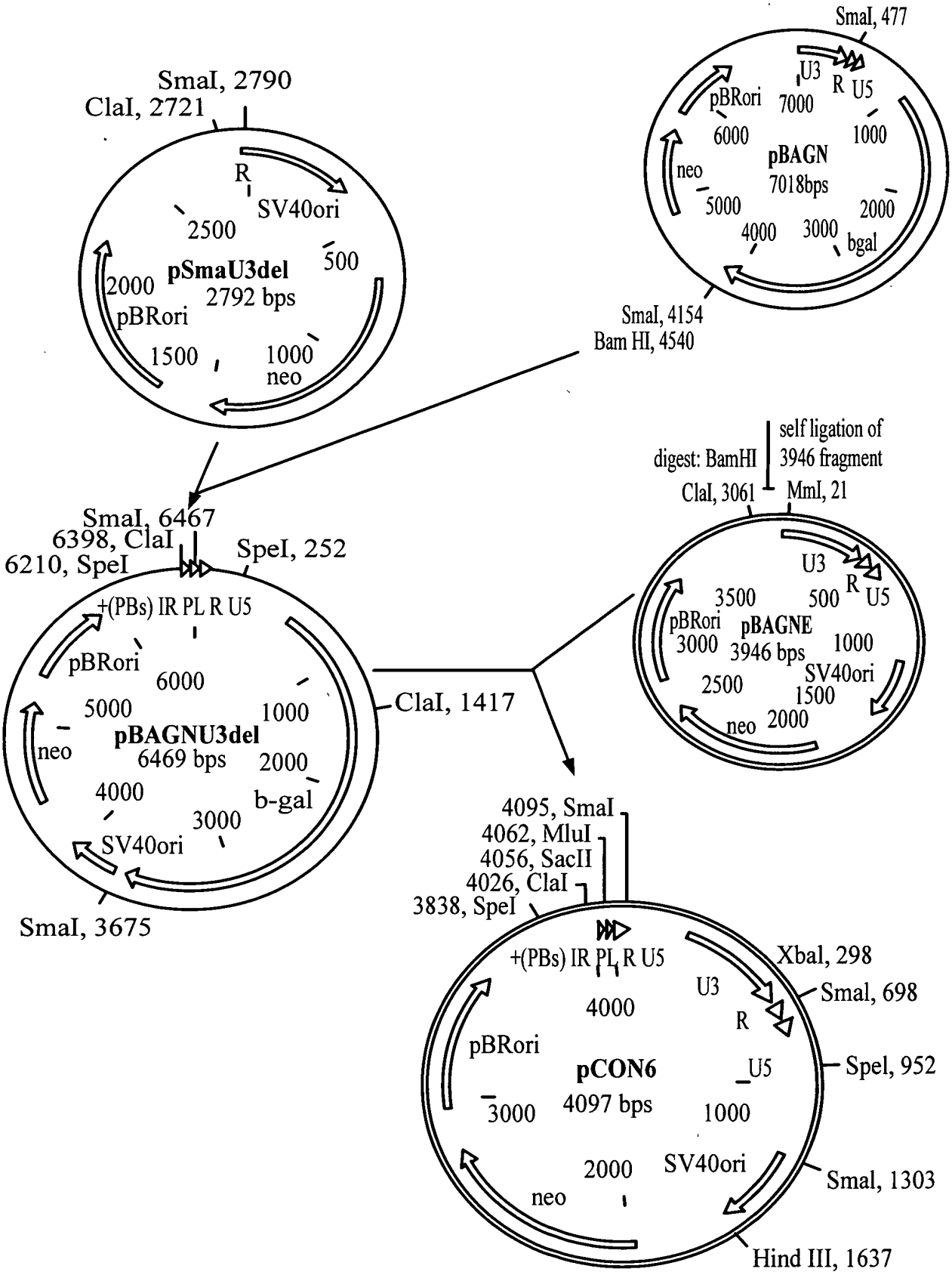
SmaI, 2790
ClaI, 2721
R
SV40ori
2500
500
pSmaU3del
2792 bps
2000
pBRori
1500
1000
neo
SmaI, 477
U3
R U5
pBRori
7000
6000
1000
pBAGN
7018bps
neo
5000
2000
4000
3000
bgal
SmaI, 4154
Bam HI, 4540
digest: BamHI
self ligation of
3946 fragment
ClaI, 3061
MmI, 21
SmaI, 6467
6398, ClaI
6210, SpeI
SpeI, 252
+(PBs) IR PL R U5
pBRori
6000
5000
1000
pBAGNU3del
neo
6469 bps
2000
4000
b-gal
3000
SV40ori
SmaI, 3675
ClaI, 1417
U3
R U5
3500
500
pBRori
pBAGNE
3000
3946 bps
1000
SV40ori
2500
1500
neo
2000
4095, SmaI
4062, MluI
4056, SacII
4026, ClaI
3838, SpeI
+(PBs) IR PL R U5
XbaI, 298
U3
SmaI, 698
4000
R
pBRori
pCON6
U5
SpeI, 952
3000
4097 bps
1000
2000
SV40ori
SmaI, 1303
neo
Hind III, 1637

FIG. 3

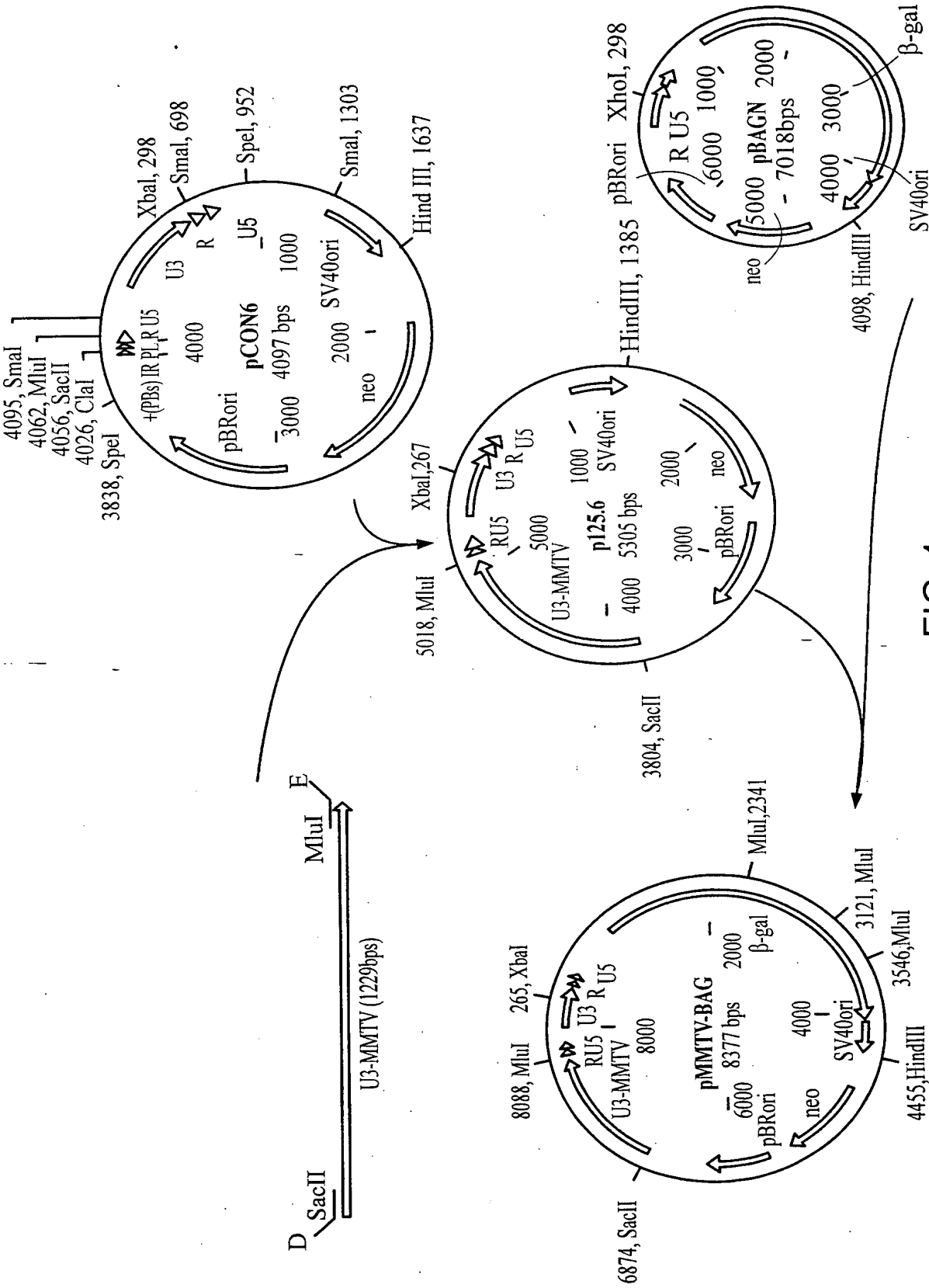
pCON6
4097 bps
pBRori
neo
U3
R
U5
PL
+(PBs)
IR
SmaI
MluI
SacII
ClaI
SpeI
XbaI, 298
SmaI, 698
SpeI, 952
SmaI, 1303
Hind III, 1637
p125.6
5305 bps
U3-MMTV
SV40ori
XbaI,267
HindIII, 1385
5018, MluI
3804, SacII
pBAGN
7018bps
pBRori
XhoI, 298
β-gal
SV40ori
4098, HindIII
pMMTV-BAG
8377 bps
MluI,2341
3121, MluI
3546,MluI
4455,HindIII
6874, SacII
8088, MluI
265, XbaI
U3-MMTV (1229bps)
D
E

FIG. 4

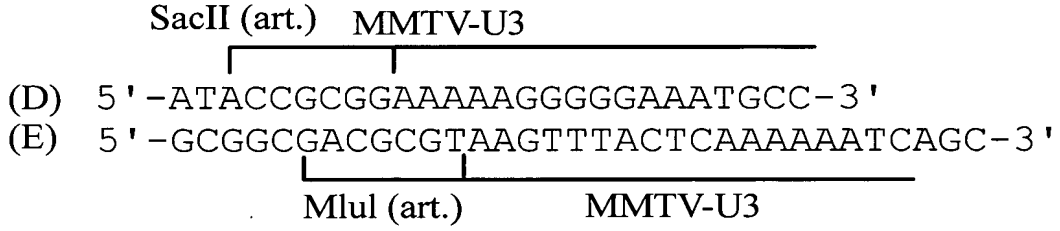
SacII (art.)
MMTV-U3
(D) 5'-ATACCGCGGAAAAAGGGGGAAATGCC-3'
(E) 5'-GCGGCGACGCGTAAGTTTACTCAAAAAATCAGC-3'
MluI (art.)
MMTV-U3

FIG. 5

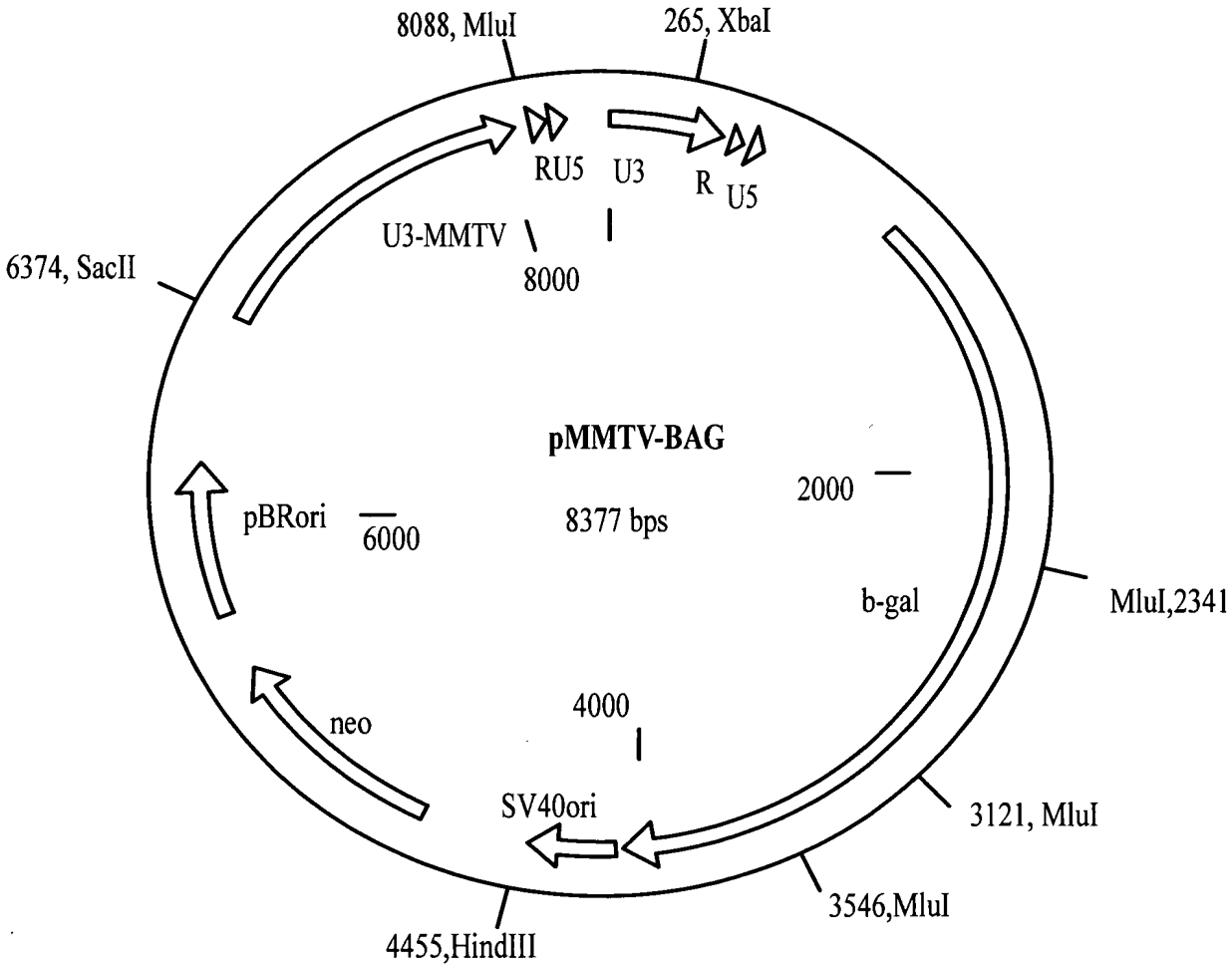
8088, MluI
265, XbaI
RU5
U3
R
U5
U3-MMTV
8000
6374, SacII
pMMTV-BAG
8377 bps
2000
pBRori
6000
b-gal
MluI,2341
4000
neo
SV40ori
3121, MluI
3546,MluI
4455,HindIII

FIG. 6

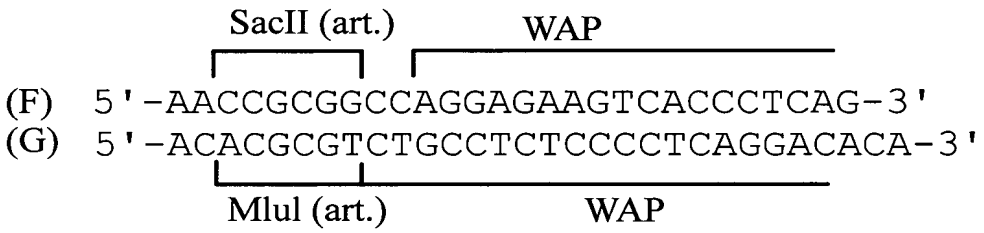
SacII (art.)
WAP
(F) 5'-AACCGCGGCCAGGAGAAGTCACCCTCAG-3'
(G) 5'-ACACGCGTCTGCCTCTCCCCTCAGGACACA-3'
MluI (art.)
WAP

FIG. 7

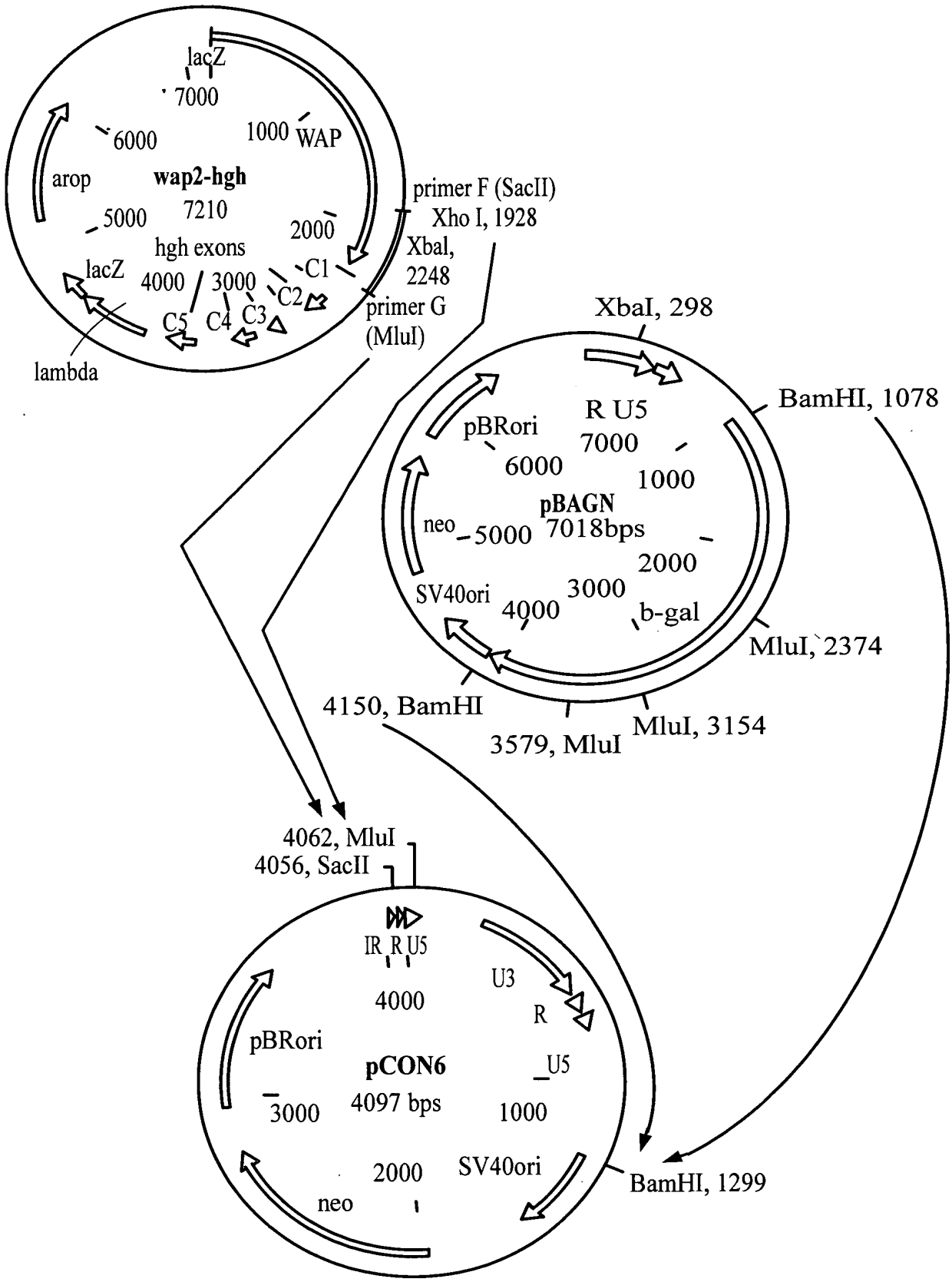
lacZ
7000
6000
1000
WAP
arop
wap2-hgh
7210
5000
2000
hgh exons
lacZ
4000
3000
C1
C2
C5
C4
C3
lambda
primer F (SacII)
Xho I, 1928
XbaI, 2248
primer G
(MluI)
XbaI, 298
BamHI, 1078
R U5
pBRori
7000
6000
1000
pBAGN
neo
5000
7018bps
2000
SV40ori
3000
4000
b-gal
MluI, 2374
4150, BamHI
MluI, 3154
3579, MluI
4062, MluI
4056, SacII
IR R U5
U3
4000
R
pBRori
pCON6
U5
3000
4097 bps
1000
2000
SV40ori
neo
BamHI, 1299

FIG. 8

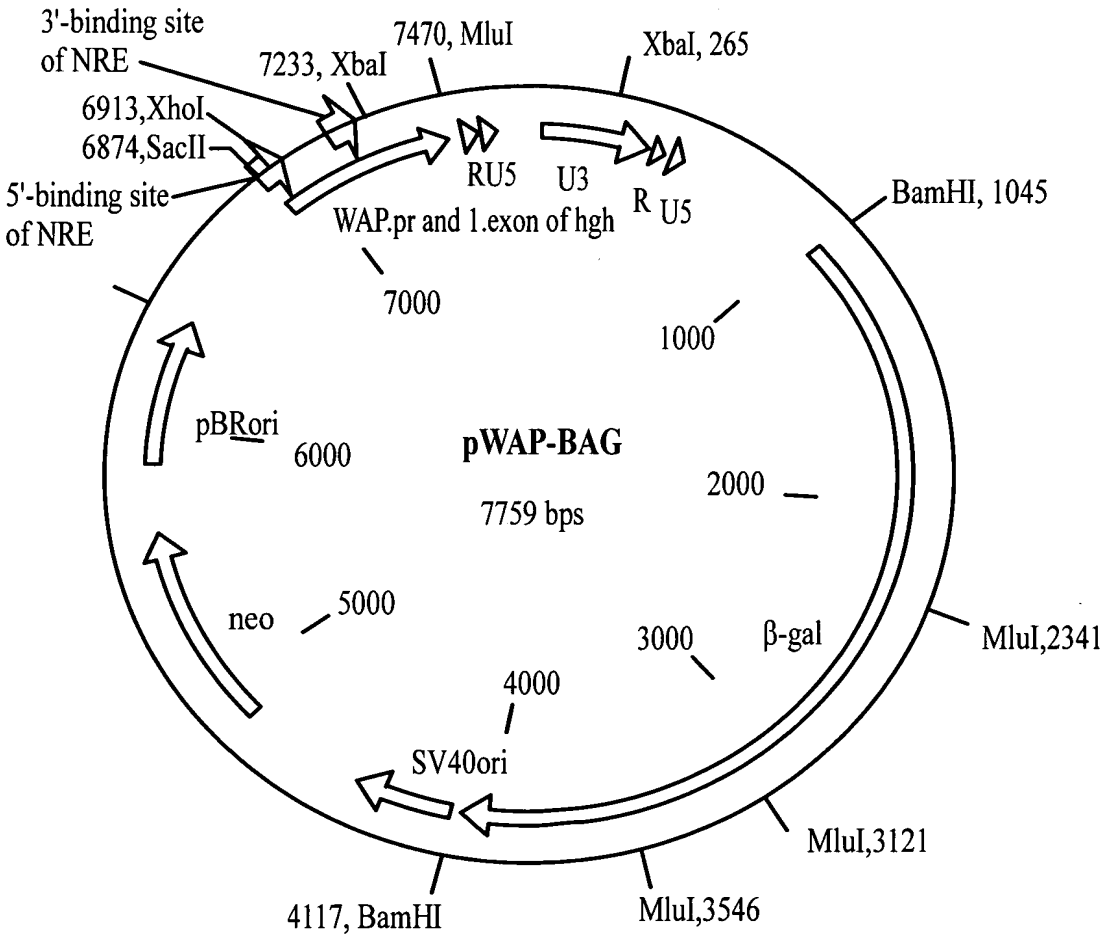
3'-binding site
of NRE
7233, XbaI
7470, MluI
XbaI, 265
6913,XhoI
6874,SacII
5'-binding site
of NRE
RU5
U3
R
U5
WAP.pr and 1.exon of hgh
BamHI, 1045
7000
1000
pBRori
6000
pWAP-BAG
7759 bps
2000
neo
5000
3000
β-gal
MluI,2341
4000
SV40ori
MluI,3121
4117, BamHI
MluI,3546

FIG. 9

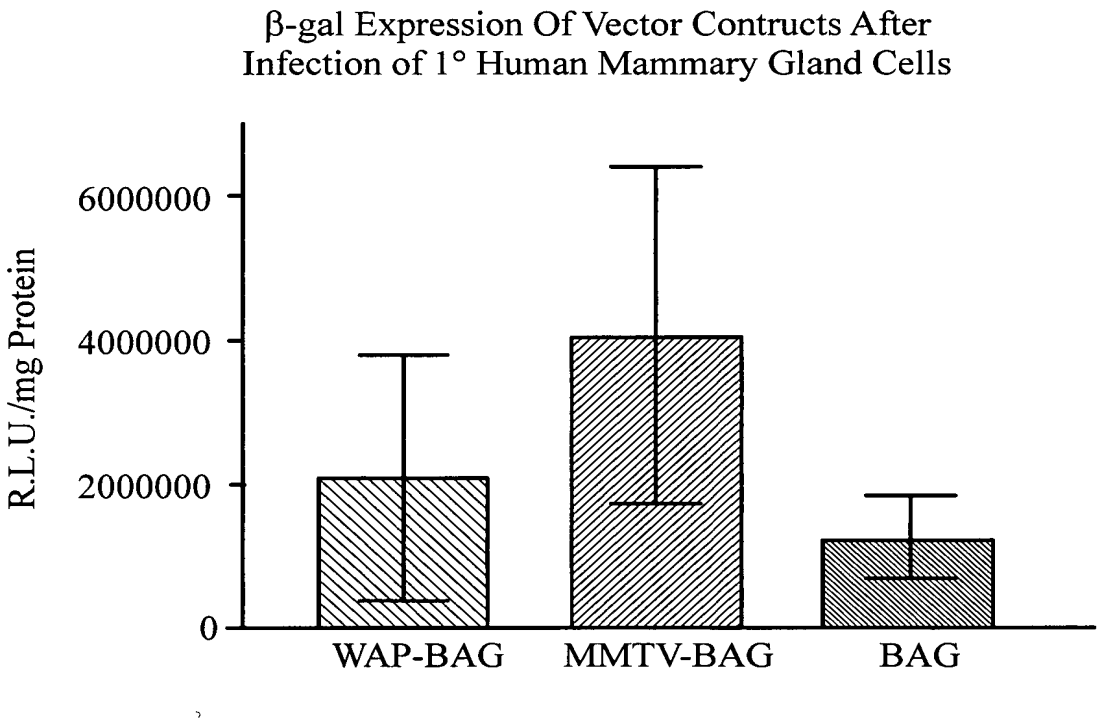
β-gal Expression Of Vector Contructs After Infection of 1° Human Mammary Gland Cells
R.L.U./mg Protein
6000000
4000000
2000000
0
WAP-BAG
MMTV-BAG
BAG

FIG. 10